



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Madhu Rao et al.)	Examiner: Lin, Kelvin Y.
)	
Application No.: 09/921,936)	Art Unit: 2142
)	
Filed: August 2, 2001)	
)	
For: NEIGHBOR DISCOVERY USING)	
ADDRESS REGISTRATION)	
PROTOCOL OVER ELMI)	

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

**DECLARATION OF PRIOR INVENTION IN THE UNITED STATES TO
OVERCOME CITED PUBLICATION (37 C.F.R. §1.131)**

Sir:

My name is Madhu Rao. I have been employed by Cisco Technology, Inc. of San Jose, California from May 25, 1999 through the present.

I am one of the inventors of the above-identified patent application that has been assigned to Cisco Technology, Inc. The declaration made herein is to establish a completion of the invention in the application in the United States at a date prior to December 6, 2000, which is the cited publication date of the paper entitled "Cisco Publication: Frame Relay ELMI Address Registration" by Cisco, posted on December 6, 2000 (the "Cisco Document").

I hereby declare that my invention was reduced to practice prior to December 6, 2000. Below stated are activities of myself and Cisco Technology, Inc. regarding the date on which the invention was reduced to practice.

My invention is embodied in a Cisco router product that implements the ELMI-AR protocol. Prior to December 6, 2000, I developed and tested a working version of the

product comprising my invention. Thus, my invention was reduced to practice prior to December 6, 2000.


Exhibit 1 attached herewith is a copy of screen images from debug sessions that capture the ELMi-AR protocol data in a running session that illustrates aspects of the invention embodied within the product. The dates in Exhibit 1 have been redacted. As evidenced by the screen image, the Cisco router product supporting the ELMi-AR protocol was completed and operational prior to December 6, 2000.

Based on the above description and as evidenced by the attached exhibit, the reduction to practice of the subject matter described in the present application was prior to the December 6, 2000 publication date of the Cisco Document.

As the below-signed invention, I, Madhu Rao, hereby declare that all statements herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements are made knowing that willful false statements and the like are punishable by fine or imprisonment, or both under §1001 of Title 18 of United States Code, and such willful or false statements may jeopardize the validity of the application or any patent issuing therefrom.

Respectfully submitted

Date: 11-22-2005



Signature

Full legal name: Madhu Rao
Citizenship: USA
Address: 1360 Tanaka Dr
San Jose, CA 95131

FIRST CLASS CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

on 11/28/05
Date of Deposit

JUANITA BRISCOE
Name of Person Mailing Correspondence

Signature

11/28/05
Date

EXHIBIT 1

bot	TN Cisco					IGX 8430 9.3.y4					
	FrontCard		BackCard				FrontCard		BackCard		
	Type	Rev	Type	Rev	Status		Type	Rev	Type	Rev	Status
1	NPM	BTN			Standby	9	Empty				
2	NPM	EMS			Active	10	Empty				
3	Empty universal backplane					11	Empty				
4	UXM	BBE	T3	AA	Active	12	Empty				
5	UFMU	AD09	HSSI	AA	Standby	13	Empty				
6	UFMU	BD09	HSSI	AA	Active	14	Empty				
7	FRM	KT07	FRI-E1	AB	Mismatch	15	Empty				
8	UFM	ARN	E1D	AB	Active	16	Empty				

Last Command: dspcds

bot TN Cisco

IGX 8430 9.3.y4

Port Neighbor Discovery

Port	Enable	State	IpAddress	IfIndex
5.1	Yes	ACTIVE	2.2.2.2	10
5.2	Yes	ACTIVE	0.0.0.0	0
5.3	No	INACTIVE	0.0.0.0	0
5.4	No	INACTIVE	0.0.0.0	0

Last Command: dspnebdisc

```

bot          TN      Cisco      IGX 8430  9.3.y4  ████████████████████

Port:        5.1          [ACTIVE ] Secondary
Interface:    HSSI      DCE          Configured Clock: 1024 Kbps
Clocking:     Normal          Measured Rx Clock: 1024 Kbps
Neighbor IP Add: 2.2.2.2      Neighbor IfIndex: 10
Port ID              0      Min Flags / Frames          1
Port Queue Depth    65535   OAM Pkt Threshold          3 pkts
ECN Queue Threshold  65535   T391 Link Intg Timer       10 sec
DE Threshold        100 %   N391 Full Status Poll      6 cyl
Signalling Protocol Cisco LMI -E EFCI Mapping Enabled      No
Asynchronous Status No     CLLM Enabled/Tx Timer      No/ 0 msec
T392 Polling Verif Timer 15   IDE to DE Mapping          Yes
N392 Error Threshold   3     Interface Control Template
N393 Monitored Events Count 4      Lead CA
Communicate Priority    No      State ON
Upper/Lower RNR Thresh 75%/ 25% Neighbor Discovery          Enable

Last Command: dspport 5.1

```

bot TN Cisco IGX 8430 9.3.y4

```
Port:            5.1                    [ACTIVE ] Secondary
Interface:    HSSI        DCE                    Configured Clock:    1024 Kbps
Clocking:    Normal                    Measured Rx Clock:  1024 Kbps
Neighbor IP Add: 2.2.2.2               Neighbor IfIndex: 10
Port ID                                0                Min Flags / Frames                1
Port Queue Depth                      65535            OAM Pkt Threshold                3 pkts
ECN Queue Threshold                    65535            T391 Link Intg Timer             10 sec
DE Threshold                            100 %           N391 Full Status Poll             6 cyl
Signalling Protocol            Cisco LMI -E           EFCI Mapping Enabled             No
Asynchronous Status                    No                CLLM Enabled/Tx Timer            No/ 0 msec
T392 Polling Verif Timer               15               IDE to DE Mapping                Yes
N392 Error Threshold                    3                Interface Control Template
N393 Monitored Events Count            4                               Lead        CA
Communicate Priority                    No                               State      ON
Upper/Lower RNR Thresh    75%/ 25%           Neighbor Discovery                Disable
```

Last Command: cnfport 5.1 DCE 1024 NORMAL 0 65535 65535 100 s N 15 3 4 N 75 25 3 N N Y 1
N

elmi3600# show frame-realy qos-autosense

ELMI information for interface Hss11/0

IP Address used for Address Registration:2.2.2.2 My Ifindex:10 ELMI AR Status:Enabled
Connected to switch:SWITCH Platform:IGX Vendor:CISCO

ELMI AR Status:Enabled

IP Address used by switch for address registration:192.0.0.0 Ifindex:5000000
(Time elapsed since last update 00:14:09)

elmi3600# show frame-relay qos-autosense

ELMI information for interface Hss11/0

IP Address used for Address Registration:2.2.2.2 My Ifindex:10 ELMI AR Status:Enabled
Connected to switch:SWITCH Platform:IGX Vendor:CISCO

ELMI AR Status:Enabled

IP Address used by switch for address registration:172.28.148.112 Ifindex:5000000
(Time elapsed since last update 00:00:40)

elmi3600#show frame-relay qos-autosense

ELMI information for interface Hss11/0

IP Address used for Address Registration:2.2.2.2 My Ifindex:10 ELMI AR Status:Enabled
Connected to switch:SWITCH Platform:IGX Vendor:CISCO

ELMI AR Status:Disabled

IP Address used by switch for address registration:0.0.0.0 Ifindex:0
(Time elapsed since last update 00:01:46)

elmi3600# conf t

elmi3600(config)# interface serial or hssi 2/1

elmi3600(config-if) no frame-relay address-reg enable